

Claims

1. A thermoplastic polymer composition comprising:

(i) an alkyl ester of (meth)acrylic acid copolymer (I) having a number average molecular weight of not less than 100,000; and

5 (ii) a block copolymer (II) having a polymer block (1) of a block copolymer, which may be hydrogenated, of an aromatic vinyl compound polymer block (a-1) and a conjugated diene polymer block (b-1), and a polymer block (2) of a polyurethane,

wherein the weight ratio of the alkyl ester of (meth)acrylic acid copolymer (I) based on the block copolymer (II) falls between
10 60/40 and 0.1/99.9.

2. The thermoplastic polymer composition according to claim 1, further comprising a thermoplastic polyurethane (III).

3. The thermoplastic polymer composition according to claim 1 or 2, further comprising a block copolymer (IV), which may
15 be hydrogenated, having an aromatic vinyl compound polymer block (a-2) and a conjugated diene compound polymer block (b-2).

4. The thermoplastic polymer composition according to any one of claims 1 to 3, further comprising a paraffin oil (V).

20 5. The thermoplastic polymer composition according to any one of claims 1 to 4, further comprising a thermal decomposition type foaming agent (VI).

6. A molded article comprising the thermoplastic polymer composition of any one of claims 1 to 5.

25 7. The molded article according to claim 6, which is a foam.

8. A composite article comprising a member of the thermoplastic

polymer composition according to any one of claims 1 to 5; and
a member of another material.

9. A composite article comprising a member, having a foam
structure, of the thermoplastic polymer composition according
5 to any one of claims 1 to 5; and a member of another material.

10. A method for producing a foam, comprising the step of
subjecting the thermoplastic polymer composition of claim 5 to
melt-extruding and foaming.

11. A method for producing a composite article, comprising the
10 step of compounding a foam of the thermoplastic polymer
composition according to any one of claims 1 to 5, with another
material.

12. A method for producing a composite article, comprising the
step of subjecting a composite article comprising an unfoamed
15 member of the thermoplastic polymer composition of claim 5 and
a member of another material to heating to effect foaming of
the unfoamed member.

13. A method for producing a composite article, comprising the
step of subjecting the thermoplastic polymer composition of claim
20 5 and another material to co-extrusion and foaming.

14. A laminate structure comprising:

a fibrous substrate;

a foam of the thermoplastic polymer composition according
to any one of claims 1 to 5 arranged on the fibrous substrate;

25 and

a nonporous layer of a thermoplastic elastomer arranged

on the foam.

15. The laminate structure according to claim 14, wherein the nonporous layer has an uneven pattern and/or a mirror pattern on its surface.

5 16. A method for producing the laminate structure of claim 14, comprising the steps of:

subjecting the thermoplastic polymer composition of claim 5 to melt-extrusion and foaming to give a first film;

10 subjecting said first film to press bonding onto a surface of a fibrous substrate, while said first film keeps flowability, to give a first laminate structure having a foam on the surface of said fibrous substrate;

subjecting a thermoplastic elastomer to melt-extrusion to give a second film; and

15 subjecting the second film to press bonding onto the surface of the foam of the first laminate structure, while said second film keeps flowability, to form a nonporous layer on the surface of the foam of the first laminate structure.

20 17. A method for producing the laminate structure of claim 15, comprising the steps of:

subjecting the thermoplastic polymer composition of claim 5 to melt-extrusion and foaming to give a first film;

25 subjecting said first film to press bonding onto a surface of a fibrous substrate, while said first film keeps flowability, to give a first laminate structure having a foam on the surface of said fibrous substrate;

subjecting a thermoplastic elastomer to melt-extrusion to give a second film; and

subjecting the second film to press bonding onto the surface of the foam of the first laminate structure, while said second
5 film keeps flowability, to form a nonporous layer on the surface of the foam of the first laminate structure,

wherein an uneven pattern and/or a mirror pattern is formed on the surface of said nonporous layer by embossing the surface of said nonporous layer, while said nonporous layer keeps
10 flowability.